Yash Kulkarni

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EDUCATION

Master of Engineering in Computer Science | Virginia Tech **Aug 2023 – Present**

Bachelor of Technology in Computer Science | MIT World Peace University **Jun 2018 – Jun 2022**

WORK EXPERIENCE

Cvent **Jun 2024 – Aug 2024**

Software Engineer Intern *Tysons, VA*

- Developed a feature to summarize penetration test outcomes using **Python**, **React.js** and **PostgreSQL**, reducing report generation time by **60%** and enabling efficient reporting for **50+** security assessments annually.
- Integrated Cvent's **AI Writing Assistant** to ensure uniformity in tone and style of customer-facing documents, enhancing clarity and reducing editing time by **20%.**
- Optimized application performance and resolved **10+** critical bugs, improving functionality and reducing processing time by **30%**, resulting in seamless user experience for internal teams.
- Enhanced the end-to-end application responsible for generating customer-facing artifacts, directly impacting the delivery of **1000+** reports annually with improved consistency and efficiency.

Plural Technology Pvt. Ltd. **Jul 2022 – Jun 2023**

Software Engineer *Pune, India*

- Engineered scalable backend services for the seamless ingestion of **20 million** records into the ArangoDB graph database, improving data processing speed by **40%** and enabling real-time query capabilities for enterprise applications.
- Optimized data pipelines using Python, reducing data processing latency by **30%**, which accelerated report generation for critical business insights.
- Built RESTful APIs and analytics tools using SQL and Flask, delivering real-time insights and enhancing decision-making processes for **200+** users daily.
- Deployed and orchestrated containerized services on AWS using ECS and Docker, achieving **99.9%** system uptime and ensuring scalability for high-demand operations.

Plural Technology Pvt. Ltd. **Mar 2021 – Jun 2022**

Software Engineer Intern *Pune, India*

- Developed and integrated advanced search functionality using Arango-Search on ArangoDB, enabling efficient fuzzy search and improving query accuracy and retrieval time by **35%**.
- Engineered optimized data models with Hackolade, reducing redundancy by **25%** and enhancing system performance through faster and more efficient data retrieval processes.
- Designed and implemented a web-based application to visualize and manage database queries, improving user interaction and reducing query execution time by **30%.**
- Enhanced team productivity by **20%** through the implementation of Agile methodologies, leveraging Jira to streamline sprint planning, task allocation, and progress tracking.

TECHNICAL SKILLS

Languages & Database: Python, Java, C++, JavaScript, TypeScript, React.js, Flask, PostgreSQL, MongoDB

Software & Tools: Tableau, PowerBI, Excel, AWS, Git, Docker, Linux

PROJECTS

Chat Application with Hateful Text Classification | *React.js, Flask, Python* **Aug 2023 - Dec 2023**

- Developed "No Hate Mate," a chat app to identify and mitigate hate speech in online conversations.
- Integrated a DistilBERT model to classify messages as hate speech or non-hate speech.
- Implemented a user confirmation feature that warns users and requires consent before sending potentially harmful messages.
- Designed an interactive front-end using React.js and a Flask backend for efficient message processing and classification.

Automated Attendance System with Face Recognition | *Python, OpenCV, Flask, SQLite* **Jan 2024 - May 2024**

- Built a Python-based facial recognition system using OpenCV to automate and streamline student attendance.
- Utilized OpenCV and dlib for real-time, accurate face detection and recognition, significantly improving efficiency.
- Designed a Flask web app enabling faculty to monitor attendance, generate detailed reports, and analyze trends.